

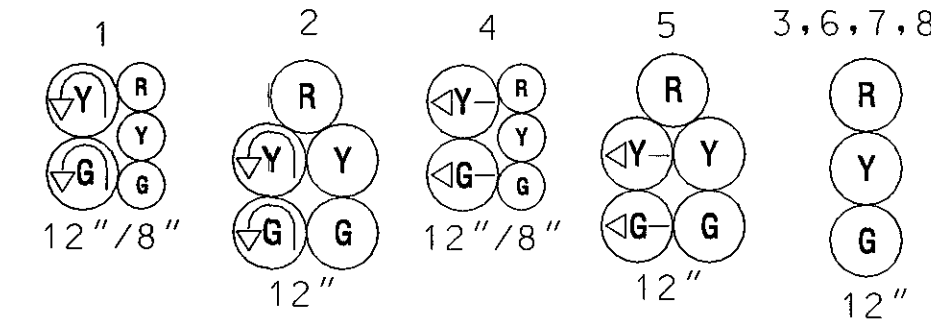
US 301 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

CONSTRUCTION DETAILS

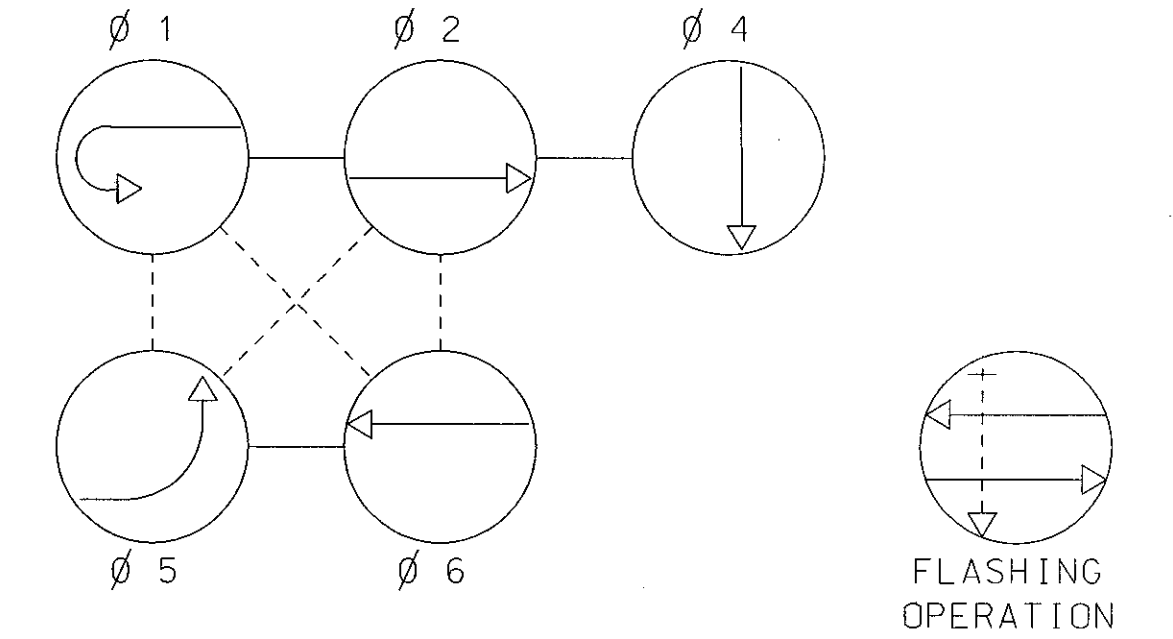
- INSTALL MAST ARM POLE WITH A POLE MOUNTED SIGNAL HEAD AND SIGN TWIN 50 FT./50 FT. MAST ARMS, SIGNAL HEADS, SIGNS, AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL MAST ARM POLE WITH A POLE MOUNTED SIGNAL HEAD AND 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND 15 FT. STREET LIGHTING WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS) CUT MAST ARM TO 43 FT. IN LENGTH
- INSTALL BASE MOUNTED CABINET AND CONTROLLER (SIZE 6) WITH ALL THE NECESSARY EQUIPMENT (NOTE: INSTALL 3-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL ELECTRICAL HANDHOLE
- INSTALL NON-EVASIVE MICRO-LOOP PROBE WITH 1000 FT. LEAD-IN
- INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTORS ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
- INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
- INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
- INSTALL W3-3 SIGN WITH FLAGS ON TWO 4 IN. X 6 IN. WOOD SUPPORTS 450 FT. PRIOR TO INTERSECTION
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- INSTALL PAVEMENT MARKING ARROW (SEE TABLE FOR DETAIL)
- INSTALL 1 IN. GALVANIZED CONDUIT (DETECTOR SLEEVE)
- INSTALL 5 IN. WHITE SKIP HEAT APPLIED THERMOPLASTIC PAVEMENT (3 FT. LINE 9 FT. GAP)
- TO BE INSTALLED BY OTHERS
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED (PROPOSED ELECTRICAL SERVICE)
- RELOCATE EXISTING GROUND MOUNTED SIGN

PAVEMENT MARKING LOCATION TABLE	
TRAFFIC CONTROL DEVICE	DISTANCE FROM STOPLINE
LEFT ARROW	80'
LEFT ARROW	160'

PROPOSED SIGNALS

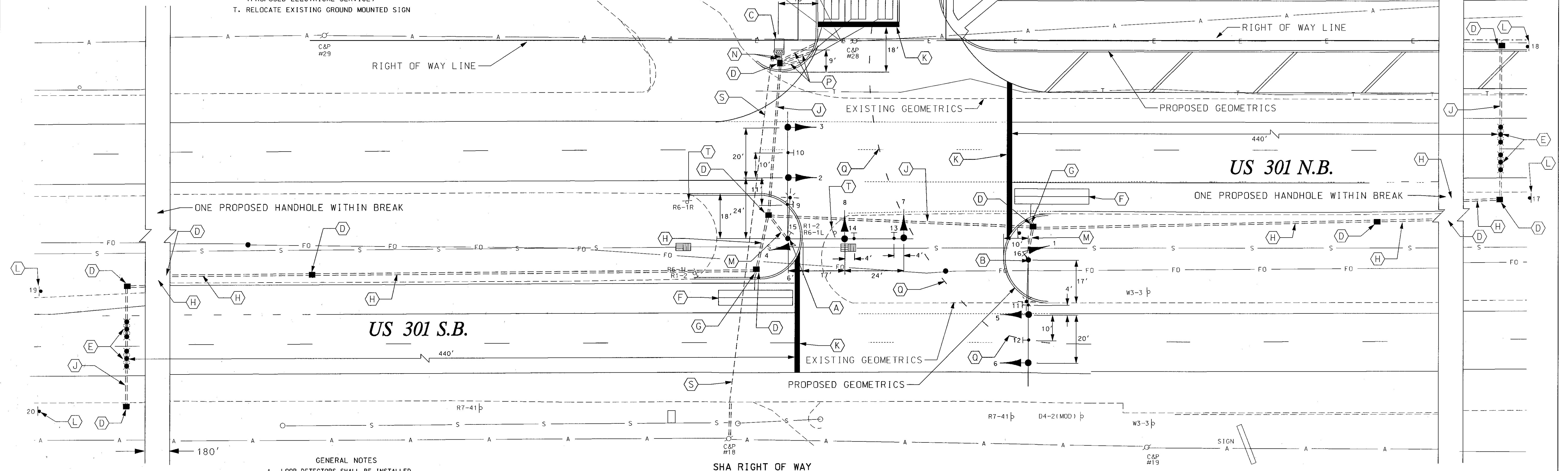
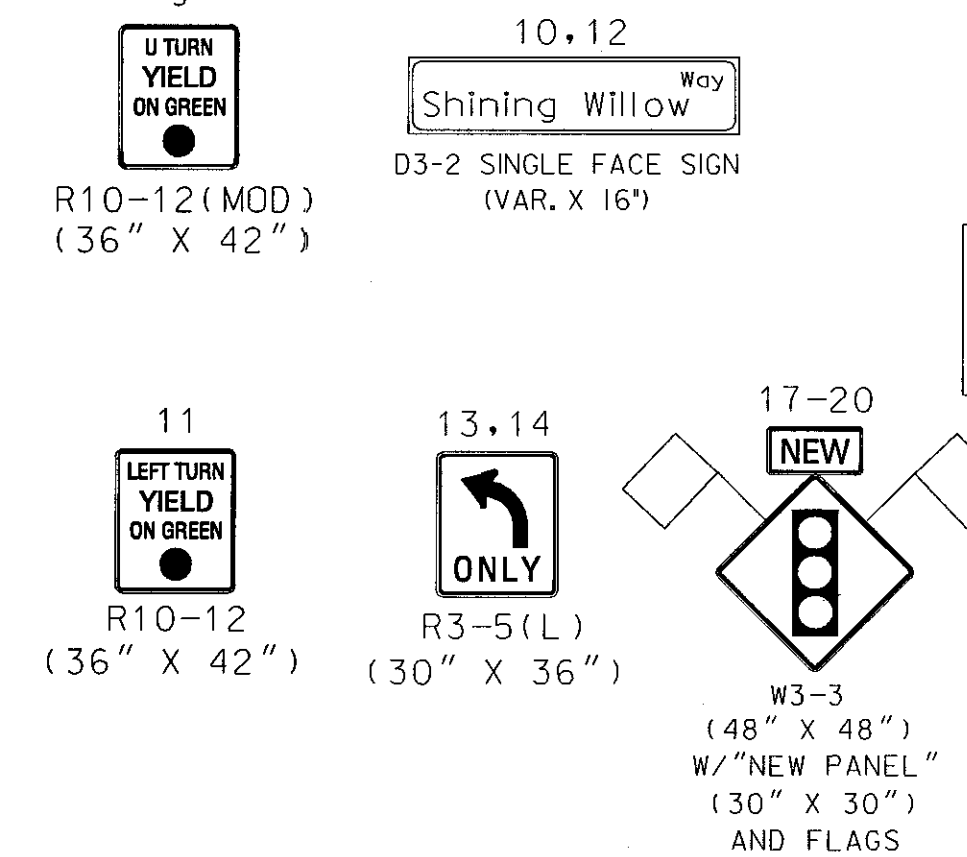


NEMA PHASING



- PHASING NOTES:
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 - PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

PROPOSED SIGNS



GENERAL NOTES

- LOOP DETECTORS SHALL BE INSTALLED 1 FT. BEHIND STOPLINE.
- THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
- LOOP DETECTORS AND CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
- ALL SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL OTHER PAVEMENT MARKINGS ARE TO BE INSTALLED BY OTHERS. PLEASE SEE PAVEMENT MARKING PLAN.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

REVISIONS	APPROVALS
	<i>Michael R. ...</i> 1/16/03 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>...</i> 1/15/03 ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>...</i> 1/15/03 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>...</i> 1/16/03 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION
US 301 AT SHINING WILLOW WAY

DRAWN BY: M. HOWELL	F.A.P. NO. 4214	TS NO. 4214	SHEET NO. 1 OF 2
CHECKED BY: T. ZAYDEL	S.H.A. NO. BW996M82	T.I.M.S. NO. F-393	
SCALE: 1" = 20'	COUNTY: CHARLES	LOG MILE: 10-4-02	
DATE: 10-4-02			